

Please add the following new claims:

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1 11. (New) A direct-sequence spread spectrum communication system comprising:  
2 a first encoder for creating a first encoded pseudo-noise code, the first encoded  
3 pseudo-noise code corresponding to a value of a signal to be transmitted; and  
4 a first modulator for modulating a first signal with the first encoded pseudo-noise  
5 code.

1 12. (New) The system of claim 11 further comprising:  
2 a second encoder for creating a second encoded pseudo-noise code; and  
3 a second modulator for modulating a second signal with the second encoded  
4 pseudo-noise code.

1 13. (New) The system of claim 12 further comprising:  
2 a first demodulator for demodulating the first signal; and  
3 a second demodulator for demodulating the second signal.

1 14. (New) The system of claim 13 wherein the first demodulator demodulates the  
2 first signal based upon a first correlator corresponding to the first encoded pseudo-noise  
3 code and the second demodulator demodulates the second signal based upon a second  
4 correlator corresponding to the second encoded pseudo-noise code.

1 15. (New) The system of claim 11 wherein the first encoder creates the first encoded  
2 pseudo-noise code by modifying a first pseudo-noise code.

1 16. (New) The system of claim 15 wherein the first encoded pseudo-noise code is the  
2 first pseudo-noise code with one bit inverted.

1 17. (New) The system of claim 16 wherein the position of the one inverted bit of the ok  
2 first encoded pseudo-noise code corresponds to the value of the first signal.

1 18. (New) The system of claim 13 wherein the first demodulator demodulates the ok  
2 first signal into a value corresponding to the position of an inverted bit of the first  
3 encoded pseudo-noise code, and the second demodulator demodulates the second signal  
4 into a value corresponding to the position of an inverted bit of the second encoded  
5 pseudo-noise code.

1 19. (New) The system of claim 12 wherein the first encoded pseudo-noise code  
2 corresponds to a first user and the second encoded pseudo-noise code corresponds to a  
3 second user.

1 20. (New) The system of claim 11 wherein the first encoder comprises a table of  
2 orthogonal pseudo-noise codes.

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